INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/36753

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : B66B 11/02 US CL : 187/401			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 187/401, 402, 414			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
	UMENTS CONSIDERED TO BE RELEVANT		r
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
X	US 5,564,529 A (Ericson et al.) 15 October 1996, Figure 2.		1, 2, 5, 12 and 17-20
x	US 4,361,208 A (Jackson et al.) 30 November 1982, Figure 1.		1-5, 7, 11-15 and 17-
			20
A	JP 5-43162 A (Hitachi Building) 23 February 1993, Figures 1-5.		1-20
x	JP 52-55145 A (Hitachi Ltd) 06 May 1977, Figure 1.		1-5, 7, 12, 15 and 17-
^	71 32 33143 A (Illiaciii Eta) 00 May 1777, 11gate 1.		20
]			
Purther documents are listed in the continuation of Box C. See patent family annex.			
Special categories of cited documents:			
date and not in conflict with the application but cited to understan			ation but cited to understand the
"A" document defining the general state of the art which is not considered to be principle or theory underlying the invention of particular relevance			
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot			
when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to			
establish the publication date of another citation or other special reason (as "Y		"Y" document of particular relevance; the	
			when the document is documents, such combination
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	e art
"P" document published prior to the international filing date but later than the "&" document member of the same patent family			family
priority date claimed			
Date of the actual completion of the international search		Date of mailing of the international search report	
19 April 2004 (19.04.2004)		17 MAY 2004	
Name and mailing address of the ISA/US Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents Eileen D. Lillis			
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